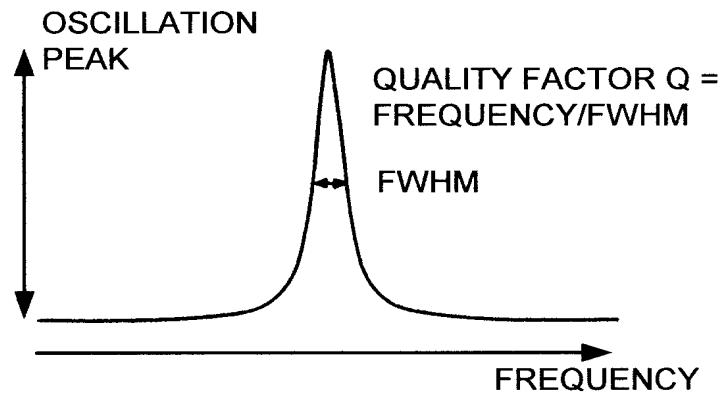
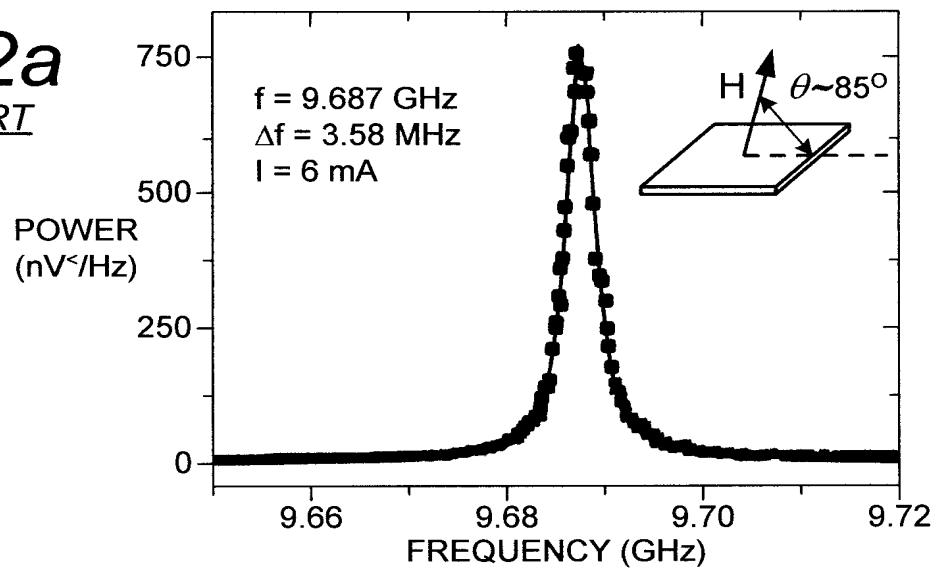
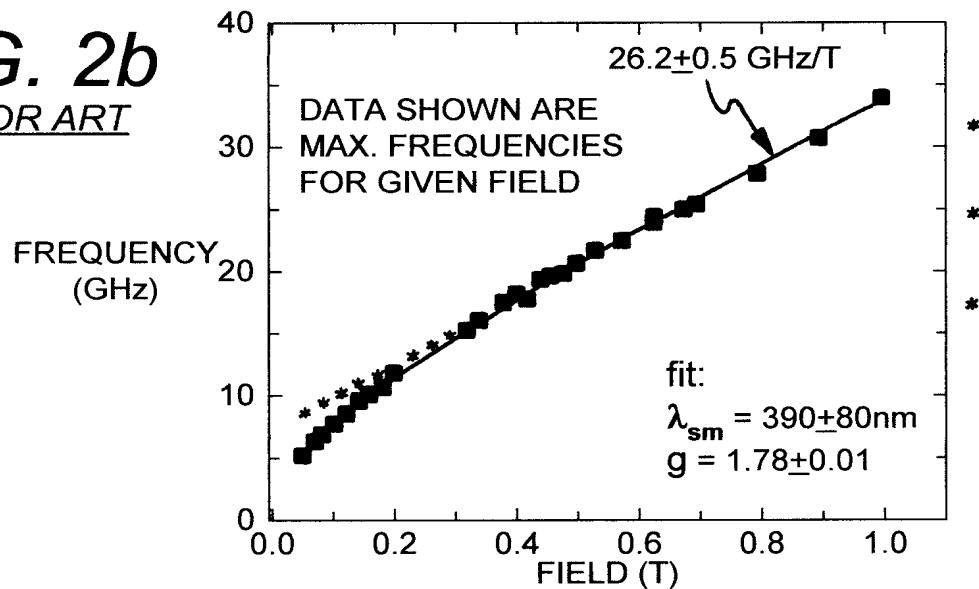
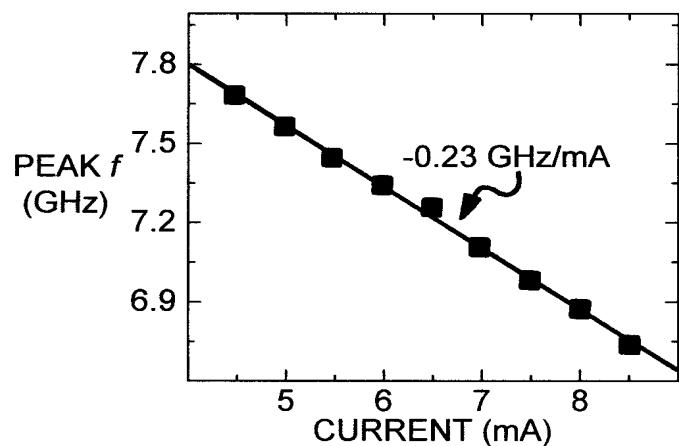


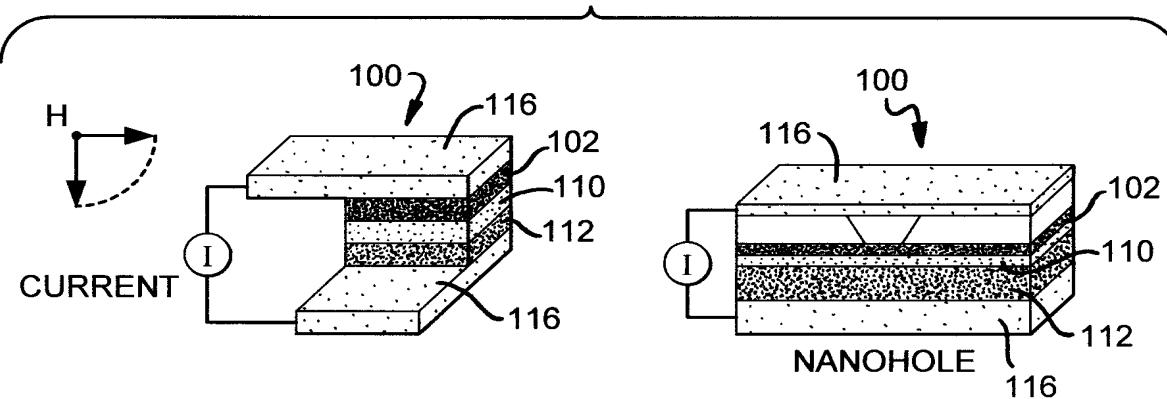
**FIG. 1****FIG. 2a**  
PRIOR ART**FIG. 2b**  
PRIOR ART

REPLACEMENT SHEET

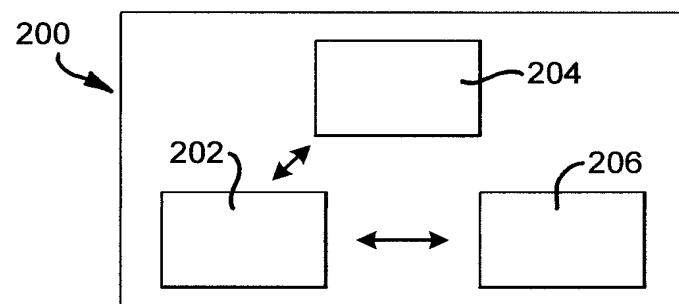
**FIG. 2c**  
PRIOR ART



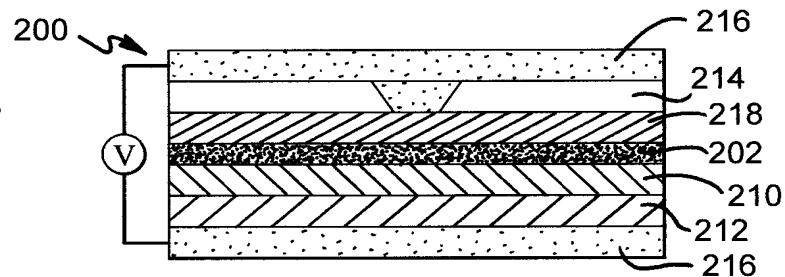
**FIG. 3**  
PRIOR ART



**FIG. 4**

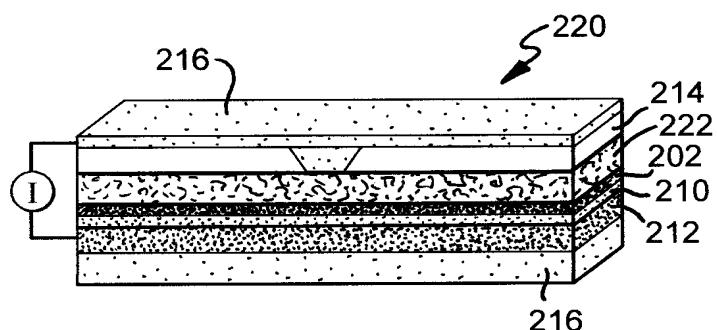


**FIG. 5**

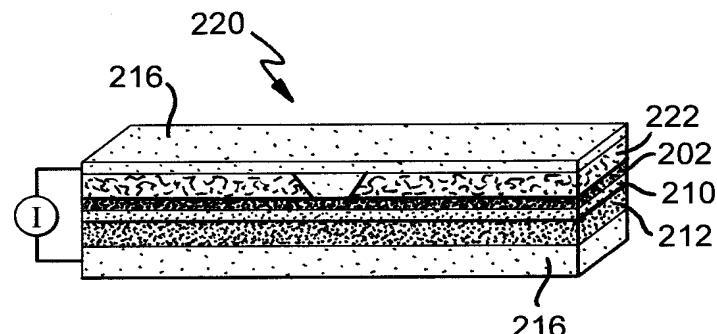


REPLACEMENT SHEET

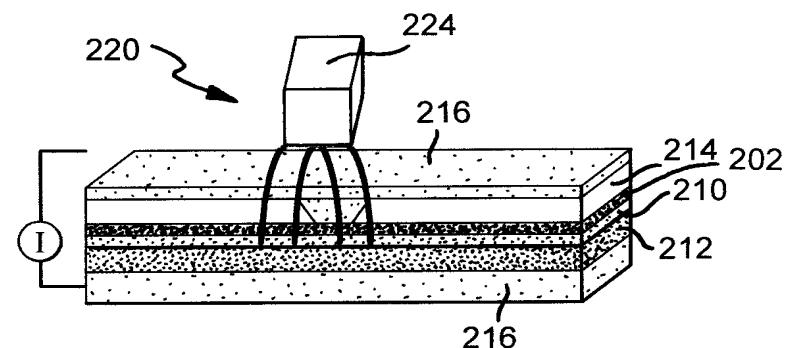
**FIG. 6a**



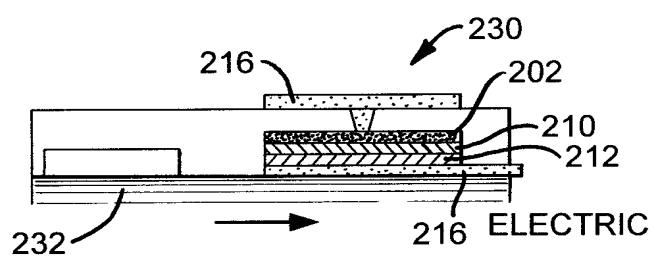
**FIG. 6b**



**FIG. 6c**

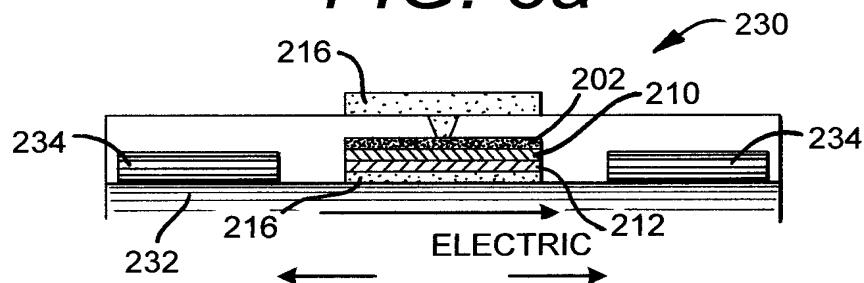


**FIG. 7**

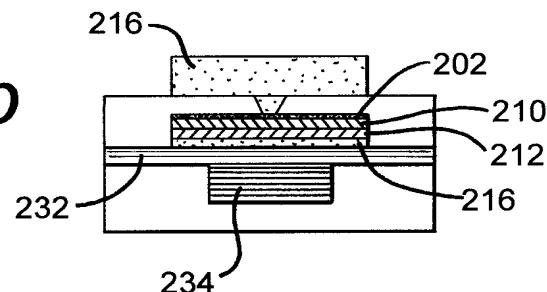


REPLACEMENT SHEET

*FIG. 8a*



*FIG. 8b*



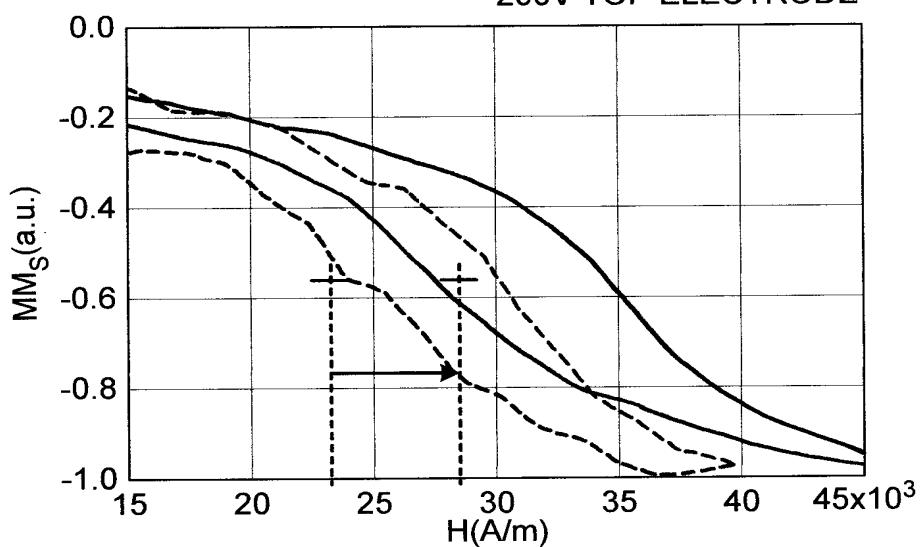
*FIG. 8c*

MOKE MEASUREMENT OF AF BIASED FIXED LAYER

TJ - Ni - PZT

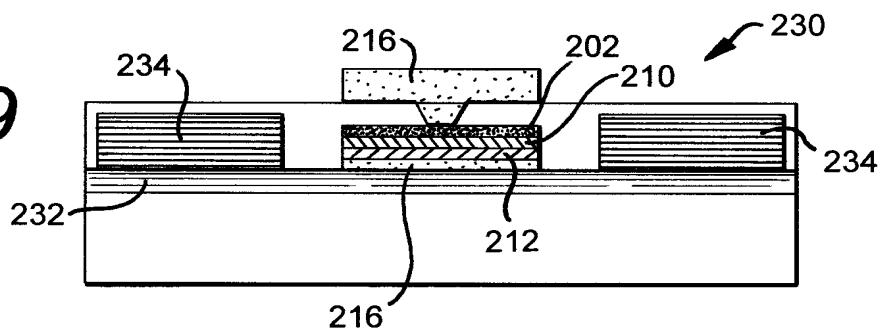
— NO VOLTAGE

— 200V TOP ELECTRODE

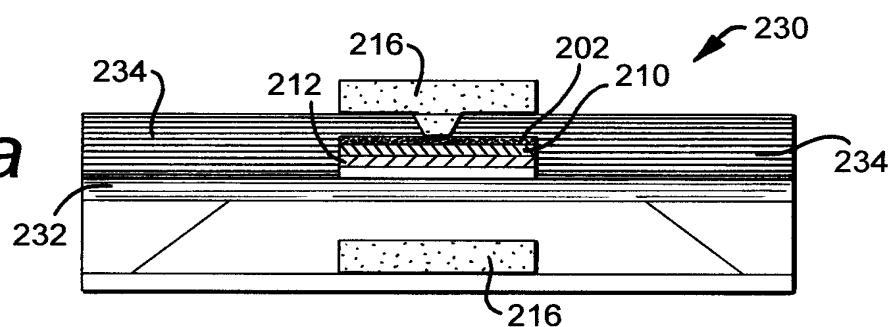


REPLACEMENT SHEET

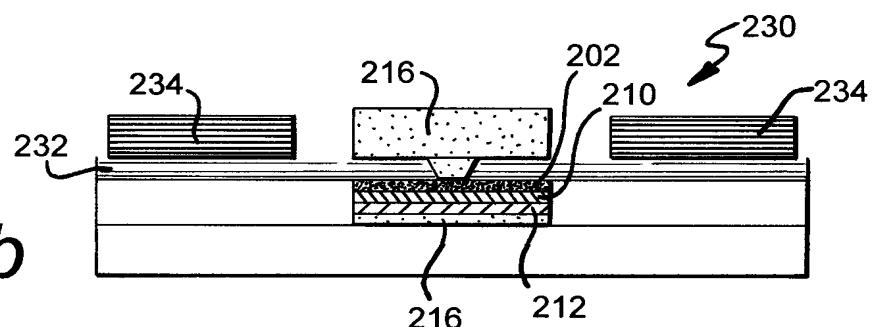
**FIG. 9**



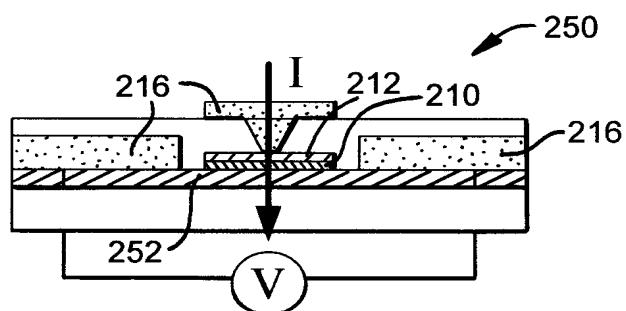
**FIG. 10a**



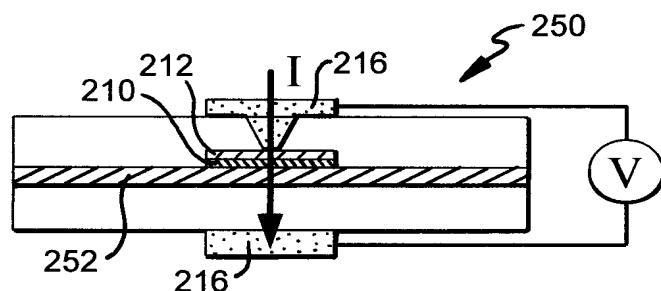
**FIG. 10b**



**FIG. 11a**

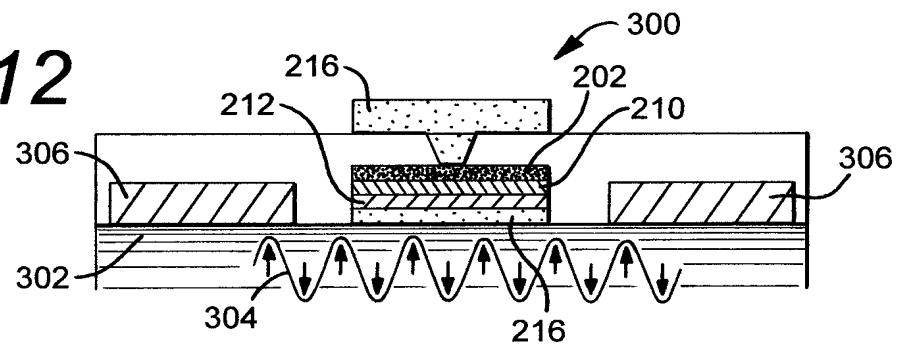


**FIG. 11b**

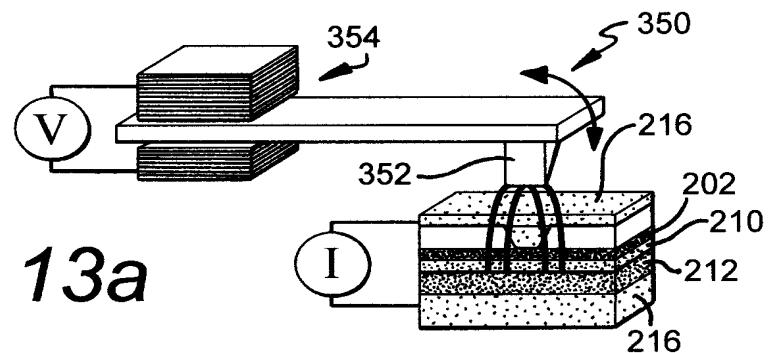


REPLACEMENT SHEET

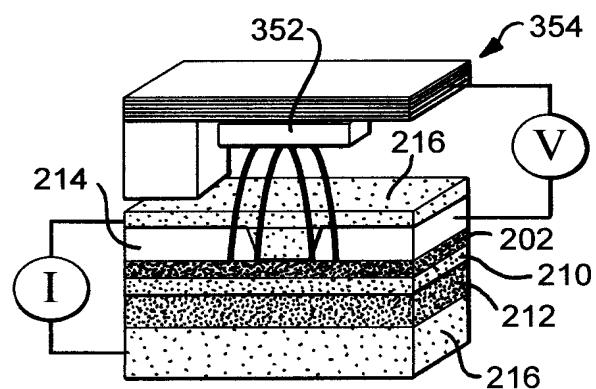
**FIG. 12**



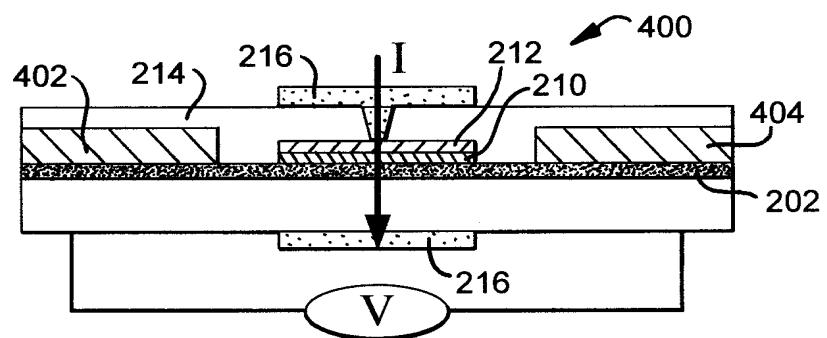
**FIG. 13a**



**FIG. 13b**

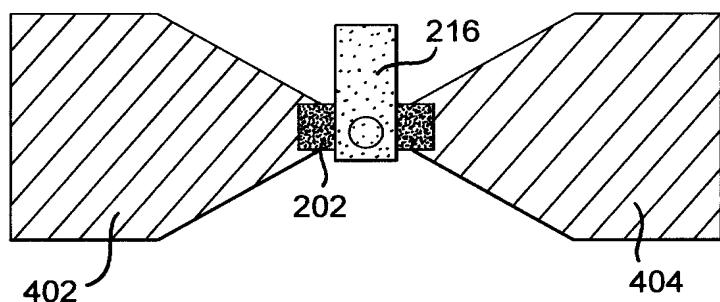


**FIG. 14a**

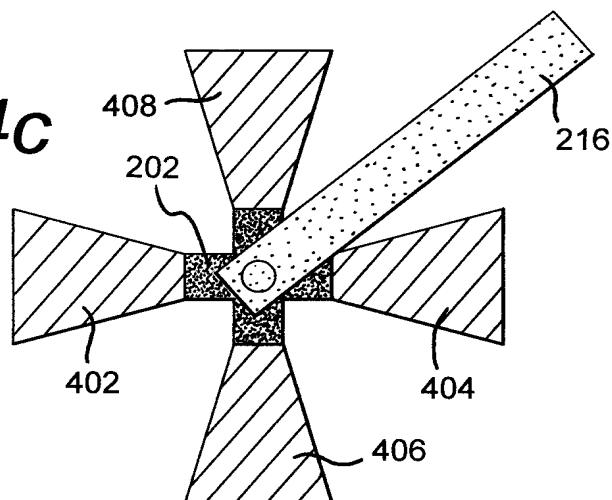


REPLACEMENT SHEET

*FIG. 14b*



*FIG. 14c*



*FIG. 15*

